

**Claims: What is claimed is:**

- 11(new). A complete EMI shield expansion housing apparatuses for add-on  
 5 expansion daughter board for computer system board comprising:  
 an on computer system board PCB shield zone, and  
 a metallic expansion housing cover, and  
 an add-on expansion daughter board,  
 whereby, after the said add-on expansion daughter board is mounted onto the  
 10 said on computer system board PCB shield zone, the said metallic  
 expansion housing cover is soldered onto the said on computer system  
 board PCB shield zone covering the said add-on expansion daughter  
 board.
- 12(new). The on computer system board PCB shield zone of claim 11 is a  
 15 copper clad ground plane PCB area fabricated on computer system board  
 PCB as part of the computer system board PCB with solderable  
 surrounding zone where the said metallic expansion housing cover of  
 claim 11 can be soldered on to.
- 13(new). The on computer system board PCB shield zone of claim 11  
 20 installed with at least one connector for installing of said add-on expansion  
 daughter board of claim 11.
- 14(new). The said connector/s of claim 13 is soldered on computer system  
 board inside of the said the on computer system board PCB shield zone of  
 claim 11.
- 15(new). The said connector/s of claim 13 is providing mechanical support  
 25 for attaching the said add-on expansion daughter board of claim 11 onto  
 the computer system board with necessary help of other mounting means.
- 16(new). The said add-on expansion daughter card of claim 11 has connector  
 means for attaching to the corresponding said connector/s of claim 13.
- 17(new). The said add-on expansion daughter card of claim 11 is attached to  
 30 the computer system board via the corresponding said connector of claim  
 13 within the on computer system board PCB shield zone of claim 11.

18(new). The metallic expansion housing cover of claim 11 is a metallic cover box with an open base that can be soldered onto the corresponding solderable surrounding zone of claim 12.

5 20(new). metallic expansion housing cover of claim 11 soldered onto said on PCB shield zone of claim 11 form a complete metallic shield apparatus for the add-on expansion daughter card and other electronics inside the apparatus.

21(new). A complete EMI shield and heat conduction expansion housing apparatus  
10 for add-on expansion daughter board for computer system board comprising:  
a said complete EMI shield expansion housing apparatuses of claim 11  
a plurality of heat conduction means

22(new). The said heat conduction means of claim 21 are attached between  
the add-on expansion daughter board of claim 11 and the metallic  
15 expansion housing cover of claim 11.

23(new). The said apparatus of claim 21 utilizing the said metallic expansion housing cover of claim 11 as heat sink for the heat that generated inside the apparatus of claim 11 and conducted to it by the heat conduction means of claim 21.

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24(new). A computer system board with a plurality of complete EMI shield expansion housing apparatuses for add-on expansion daughter boards comprising:

25 a plurality of said complete EMI shield expansion housing apparatuses of claim 11 and/or said complete EMI shield with heat conduction expansion housing apparatuses of claim 18

25(new). The said shield expansion housing apparatuses for add-on expansion board claim 28 are mechanically isolated from each other with certain spacing in order to apply soldering during the assembly.

30 26(new). A stackable computer system board with a plurality of complete EMI shield expansion housing apparatuses for add-on expansion daughter board comprising: